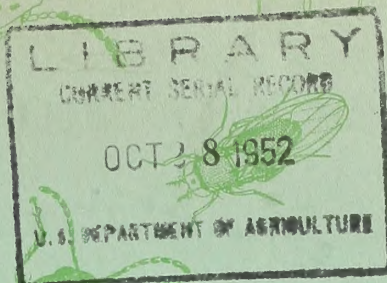


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Cooperative ECONOMIC INSECT REPORT

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DIVISION OF INSECT DETECTION AND IDENTIFICATION

SECTION OF ECONOMIC INSECT DETECTION AND REPORTING

The Cooperative Economic Insect Report is issued weekly as a service to American Agriculture. Its contents are compiled from information supplied by cooperating State, Federal, and industrial entomologists and other agricultural workers. In releasing this material the Bureau serves as a clearing house and does not assume responsibility for accuracy of the material.

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Section of Economic Insect Detection and Reporting
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COOPERATIVE ECONOMIC INSECT REPORT

Highlights of Insect Conditions

GREENBUG distribution general on volunteer wheat in Kansas. First of season on wheat in Kay County, Oklahoma. (page 330)

WALNUT CATERPILLAR second-generation damage more extensive in Kansas than usual. (page 331)

CABBAGE CATERPILLARS damaging cole crops in several states. (page 332)

MEXICAN BEAN BEETLE unusually light in eastern Virginia and Charleston area, South Carolina. (page 333)

STORED-GRAIN INSECTS survey results in Kansas. (page 334)

WALKINGSTICK outbreak in Michigan forests. (page 334)

SALT-MARSH CATERPILLAR migrating from cotton into truck crops in Salt River Valley, Arizona. (page 336)

WEATHER FOR THE WEEK ENDING OCTOBER 7, 1952

Unseasonably warm, dry, sunny weather prevailed west of the Continental Divide. Forests and ranges continued very dry, with the forest fire hazard at a maximum in many sections. Average temperatures for the week exceeded the normals by 10° at most stations in the southwestern desert areas and at interior stations in the Pacific States, with maximum temperatures reaching record seasonable levels on several days. The highest temperatures ever recorded in October were reported from many stations including Red Bluff, California, with 102° on the 1st and 5th, and Yuma, Arizona, with 109° on the 4th.

East of the Rocky Mountains the week opened unseasonably warm, but cold air intrusions brought a sharp temperature reduction in north-central areas on the 3d and in the South and East on the 6th. On the 6th late-season low temperature records were established at many stations in the central Interior as far south as the northern portions of the Southern States. A minimum temperature of 7° was recorded in Nebraska, and killing frost and freezing temperatures occurred in the Mississippi Valley and Great Plains as far south as the central portions of Oklahoma, Arkansas, and Tennessee. This was the first general killing frost of the season in the north-central interior. Weekly averages were 6° to 10° below normal in north-central sections, 1° to 3° above normal along the north Atlantic Coast. Substantial rains occurred in a belt extending from Arkansas through the Ohio Valley and the Northeast and in the Florida Peninsula, but there was little or none elsewhere. Severe thunderstorms with hail caused some damage in parts of New York and New England on the 2d. In the areas of killing frost, little damage was expected since the major crops generally had already matured. Some snow fell in the northern Rockies, and snow flurries occurred for the first time this season in several extreme north-central areas. (Summary Supplied by U. S. Weather Bureau).

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Reports in this issue are for the week ending October 4 unless otherwise designated.

CEREAL AND FORAGE INSECTS

GRASSHOPPERS (*Acrididae*) -- KANSAS - Local marginal damage in fall-seeded wheat in Rawlins County. Generally, grasshoppers scarce over the State. (Smith, Painter, Gates). FLORIDA - Second hatch of American grasshopper (*Schistocerca americana*) damaging Pensacola Bahia grass pastures and succulent crops in Alachua County. Especially destructive to Bahia seed. (L. Blich).

FALL ARMYWORM (*Laphygma frugiperda*) -- TENNESSEE - Causing severe injury to isolated plantings of alfalfa in Montgomery County. (L. B. Scott). FLORIDA - Severe on small planting of sweet corn in Belle Glade area. (N. C. Hayslip). MISSISSIPPI - Heavy damage to lawns and pastures reported in Jones County. Also causing heavy damage to pastures in Jackson County. A few first instar larvae feeding on fall-planted oats in Oktibbeha County. (Hester, Pepper, and Price). LOUISIANA - Infestations on August-planted sugarcane, lawn grasses and fall-planted oats, wheat and rye are general and severe in localized areas throughout southern half of State. (C. E. Smith). TEXAS - Injurious infestations in small corn in Lower Rio Grande Valley. (Wene and White). KANSAS - Moving from volunteer wheat to newly seeded wheat in Grant County. Adults plentiful at lights for past several weeks, comparing in number to corn earworm moths. No extensive damage has occurred. (Smith, Painter, Gates).

LESSER CORNSTALK BORER (*Elasmopalpus lignosellus*) -- OKLAHOMA - Some damage to early-seeded wheat in north central area. (R. G. Dahms).

WHITE GRUBS -- OKLAHOMA - Causing some injury to early-seeded wheat in north central area. (R. G. Dahms).

WIREWORMS -- OKLAHOMA - Scattered reports of damage to seeded wheat in north and northwestern areas. (R. G. Dahms).

BROWN WHEAT MITE (*Petrobia latens*) -- UTAH - Occurring over large area on wheat, barley and oats. Some damage but less widespread crop injury than in 1951. (G. F. Knowlton).

LEAFHOPPERS, WHEAT STEM MAGGOT and FLEA BEETLES most common insects on wheat in northwest KANSAS. (Smith, Painter, Gates).

HESSIAN FLY (Phytophaga destructor) -- KANSAS - Generally, very little emergence to date this fall due to hot, dry weather. Some flies in volunteer wheat in northwest area; only occasional infestation found elsewhere. (Smith, Painter, Gates).

AN APHID (Rhopalosiphum subterreaneum) -- KANSAS - Observed on wheat in several northwestern counties between September 19 and October 3. (Smith, Painter, Gates).

GREENBUG (Toxoptera graminum) -- KANSAS - Observed on fall-seeded wheat in Graham and Rawlins Counties, and on volunteer wheat in Thomas County. Adults or colonies observed in Geary, Riley, Norton and Marion Counties since September 12. Distribution apparently general, but adults occurring mainly on volunteer wheat. (Smith, Painter and Gates). OKLAHOMA - First of the season found on wheat in Kay County. (R. G. Dahms).

VELVETBEAN CATERPILLAR (Anticarsia gemmatilis) -- LOUISIANA - Stripped soybeans in southern part of State; severe ragging Baton Rouge vicinity. Damaging infestations usually occur in this area first half of July. (C. E. Smith).

YELLOW-STRIPED ARMYWORM (Prodenia ornithogalli) -- LOUISIANA - Young larvae in abundance infesting soybeans and other crops and plants in Baton Rouge vicinity. (C. E. Smith).

SOUTHERN GREEN STINK BUG (Nezara viridula) -- SOUTH CAROLINA - Less abundant than usual on field peas and soybeans in Charleston area. (Reid, Cuthbert, Deen).

A NOCTUID -- FLORIDA - Unidentified adults abundant in pasture grasses in Gadsden County. (F. E. Guthrie).

ARMYWORMS -- SOUTH CAROLINA - General outbreaks on pastures occurred between August 25 to September 10. (W. C. Nettles).

CORN EARWORM (Heliothis armigera) -- NORTH DAKOTA - More numerous in garden sweet corn at Fargo than for the last seven years. (R. L. Post).

TWO-SPOTTED SPIDER MITE (Tetranychus bimaculatus) -- CALIFORNIA - A heavy infestation has built up in a field of sweet corn and in some celery fields in Orange County. Also numerous on cauliflower. (R. E. Campbell). UTAH - Damage to seed alfalfa foliage below normal over most of State. (G. F. Knowlton). KANSAS - Present in some fields of volunteer wheat in northwest area. (Smith, Painter, Gates).

LYGUS BUGS (Lygus spp.) -- UTAH - Abundant on green alfalfa at Farmington. (G. F. Knowlton, September 27).

FRUIT INSECTS

CODLING MOTH (Carpocapsa pomonella) -- KANSAS - Relatively large increase in attacks on ripening apples since last spraying (about the middle of August). High counts obtained due to this late infestation. (Smith, Painter, Gates).

WALNUT CATERPILLAR (Datana integerrima) -- KANSAS - Many walnut trees partly or completely defoliated in northeast area. Second generation apparently more extensive and destructive than has been seen or reported previously. (Smith, Painter, Gates).

TWO-SPOTTED SPIDER MITE (Tetranychus bimaculatus) -- KANSAS - Collecting in large numbers on trunks of apple trees in orchards where miticidal sprays not used. (Smith, Painter, Gates).

BLACK PECAN APHID (Melanocallis caryaefoliae) and BLACK-MARGINED APHID (Monellia costalis) infesting pecan trees in southern NEW MEXICO. Infestations range from light to very heavy. (M. Swoboda).

SNOWY TREE CRICKET (Oecanthus niveus) and WESTERN SPOTTED CUCUMBER BEETLE (Diabrotica undecimpunctata) causing losses up to 10-12 percent on prunes in Yamhill County, OREGON. (R. W. Every).

JAPANESE BEETLE (Popillia japonica) -- VERMONT - Survey conducted in Bennington County indicates light scattering infestation. Only point of intensive infestation was in Bennington where grubs had been sufficiently heavy to destroy turf. No evidence of the beetle found in several towns. (H. L. Bailey). ALABAMA - One adult collected in trap at Maxwell

Airforce Base, Montgomery. (W. Middleton, September 13). TEXAS - One adult collected at Kelly Field, San Antonio. (W. Middleton, September 13).

TRUCK CROP INSECTS

CABBAGE CATERPILLARS -- SOUTH CAROLINA - Light to heavy infestations of cabbage looper (Trichoplusia ni) on cabbage, collards, and broccoli. Some plantings of cabbage severely damaged. Imported cabbageworm (Pieris rapae) moderately abundant on collards in Dorchester County. Cabbage webworm (Hellula undalis) light on turnips and cabbage. (Reid, Cuthbert, Deen, eastern area). VIRGINIA - Cabbage looper, diamondback moth (Plutella maculipennis) larvae, imported cabbageworm, corn earworm and cutworms continue to infest cole crops in eastern areas. (Brubaker, Greenwood, Hofmaster). LOUISIANA - Heavy infestations of cabbage looper on fall-planted cabbage in areas around New Orleans. (K. L. Cockerham). TEXAS - Cabbage looper damaging cabbage in Lower Rio Grande Valley. (Wene and White). ARIZONA - Severe cabbage looper infestations continue in lettuce, cabbage, cauliflower and broccoli in Salt River Valley. Repeated insecticide applications necessary to obtain control. (O. A. Hills). CALIFORNIA - Cabbage looper infestation in West Covina area of Los Angeles County is building up rapidly and causing considerable damage. (R. E. Campbell).

APHIDS (Aphidae) -- VIRGINIA - Cabbage aphid (Brevicoryne brassicae) populations on kale requiring control measures on Eastern Shore. (Brubaker, Greenwood, Hofmaster). LOUISIANA - Heavy infestation of melon aphid (Aphis gossypii) on fall cucumbers in Tangipahoa Parish. (K. L. Cockerham). UTAH - Cabbage aphid damage increased in many fields in Utah and Weber Counties after late July this year. (G. F. Knowlton).

TOMATO FRUITWORM (Heliothis armigera) -- TEXAS - Damaging tomato and eggplant fruits in Winter Haven area. (B. H. Richardson).

LESSER CORNSTALK BORER (Elasmopalpus lignosellus) -- TEXAS - Destroying beans in Lower Rio Grande Valley. (Wene and White).

HORNWORMS (Protoparce spp.) -- FLORIDA - Light to moderate on several tomato farms in Belle Glade area. (N. C. Hayslip).

LEAF MINERS -- FLORIDA - Liriomyza sp. widespread in light numbers on tomato in Belle Glade area. (N. C. Hayslip). TEXAS - Causing considerable damage to beans and pepper in Lower Rio Grande Valley. (Wene and White).

BEAN THRIPS (Hemiothrips fasciatus) -- UTAH - Less than normal damage to bean blossoms during 1952. (G. F. Knowlton).

MEXICAN BEAN BEETLE (Epilachna varivestis) -- SOUTH CAROLINA - Unusually scarce in Charleston area. (Reid, Cuthbert, Deen). VIRGINIA - Continues scarce in eastern areas. (Brubaker, Hofmaster, Greenwood).

LEAFHOPPERS -- UTAH - Six-spotted leafhopper (Macrostelus divinus) numerous on celery at Murray, Midvale, Pleasant Grove and American Forks. Light aster yellows in most fields examined. Empoasca filamenta also prevalent but lighter. (G. F. Knowlton, September 23). TEXAS - Causing considerable damage to beans in Lower Rio Grande Valley. (Wene and White).

FLEA BEETLES -- SOUTH CAROLINA - Abundant on eggplant in Charleston area. (Reid, Cuthbert, Deen).

ALFALFA LOOPER (Autographa californica) -- WASHINGTON - Cocoons earlier than usual in spinach due to warm summer and hot September weather. Processors having difficulty in removing cocoons. About 2,000 tons of spinach involved. Control measures being applied. (W. C. Cook, Walla Walla).

SOUTHERN BEET WEBWORM (Pachyzancla bipunctalis) -- SOUTH CAROLINA - Moderate injury to young beets in Charleston area. (Reid, Cuthbert, Deen).

BLISTER BEETLES (Epicauta spp.) -- FLORIDA - Heavy infestation on ornamentals in Quincy area. (L. M. May). TEXAS - Damaged tomato and eggplant in Winter Haven area. (B. H. Richardson).

MELON APHID (Aphis gossypii) and GLADIOLUS THRIPS (Taeniothrips simplex) have been very abundant in late plantings of gladiolus in WISCONSIN due to the long growing season this year. First killing frost occurred October 3. (E. L. Chambers).

OBLIQUE-BANDED LEAF ROLLER (Archips rosaceana) -- UTAH - Infestations on raspberry and dewberry very low this year as well as in 1951. (G. F. Knowlton).

SUGARCANE BEETLE (Euetheola rugiceps) -- LOUISIANA - Adults have damaged stands of strawberry plant beds in Tangipahoa Parish. Attack started in August and still continues. (K. L. Cockerham).

MOLE CRICKETS -- FLORIDA - Fairly heavy infestation damaging vegetable seedlings on low land in Gadsden County. Control measures applied some cases. (L. M. May).

FIELD CRICKET (Acheta assimilis) -- OREGON - Causing severe damage to lotus seed field in Yamhill County. (E. A. Dickason).

STORED PRODUCTS INSECTS

RICE WEEVIL (Sitophilus oryza) and ANGOUMOIS GRAIN MOTH (Sitotroga cerealella) seem to be increasing in stored corn in SOUTH CAROLINA over last year but not as abundant as during the past 10 years. (W. C. Nettles, September 20).

STORED-GRAIN INSECTS -- KANSAS - Examination of 748 probe samples of wheat taken from farm bins over the State showed that much of the wheat is below 11 percent moisture and that insect populations are very low. Only 22.3 percent of the samples had insects, and it is believed that most of these came from pockets in a few bins rather than a general infestation. (Smith, Painter, Gates). NORTH DAKOTA - Heavy infestation of psocids in grain in an elevator at Harwood. Indications of spread to other elevators. Grain at this location being damaged also by saw-toothed grain beetle (Oryzaephilus surinamensis) and confused flour beetle (Tribolium confusum). (W. J. Colberg).

FOREST INSECTS

WALKINGSTICK (Diapheromera femorata) -- MICHIGAN - Severe outbreak in Ogemaw and adjoining counties. Aerial survey completed. Further investigation work planned. (W. F. Morofsky).

GREEN-STRIPED MAPLEWORM (Anisota rubicunda) -- KANSAS - Second-generation larvae has caused partial defoliation of many maples from St. Marys to Atchinson in the northeast. This insect occurs practically every year in this area; however, infested trees seem to survive without noticeable reduction in vigor. (Smith, Painter, Gates).

ELM LEAF BEETLE (Galerucella xanthomelaena) -- MICHIGAN - Reported in Washtenaw County for the first time during September. (W. F. Morofsky).

FALL WEBWORM (Hyphantria cunea) -- NEW MEXICO - Occurring throughout State where deciduous trees and shrubs present. Willow, cottonwood and apple trees most heavily infested. (M. Swoboda).

A HACKBERRY LEAF GALL PSYLLID (Pachypsylla sp.) -- WISCONSIN - Swarming heavily in villages and cities in southern part of the State where hackberry is grown sparsely as a shade tree. (E. L. Chambers).

BOXELDER BUG (Leptocoris trivittatus) -- MICHIGAN - Abundant throughout lower half of State. (W. F. Morofsky).

AN APHID (Lachini) -- MICHIGAN - Heavy infestations on willow throughout southern part of lower Michigan. (W. F. Morofsky).

INSECTS AFFECTING MAN AND ANIMALS

FLIES -- UTAH - Housefly (Musca domestica) more numerous than most seasons of past seven years. Chemical control effectiveness declined in most areas. (G. F. Knowlton). TEXAS - Horn fly (Siphona irritans) has increased heavily in Kerrville area. (W. S. McGregor). KANSAS -- Cooler nights during the latter part of September caused migration of flies into homes and offices in Manhattan; however, spraying of the city reduced the annoyance almost immediately. (Smith, Painter, Gates).

SCREW-WORM (Callitroga americana) -- KANSAS - Reported as common over the State between September 19 and October 3. (Smith, Painter, Gates). TEXAS - Infestations have increased following recent rains but not too much damage expected if infested animals treated regularly. (C. L. Smith, Kerrville area).

CAVE CRICKETS -- TENNESSEE - Infesting garages and basements in the Knoxville vicinity. (W. W. Stanley).

COTTON INSECTS

PINK BOLLWORM (Pectinophora gossypiella) -- Newly infested counties in Texas: Cass, Collin, Shelby, Upshur, Morris, Rusk, Titus and Rockwall (reported since September 24). This totals 25 Texas counties found infested outside the quarantine area in 1952. All of the new counties in Texas are east of the old quarantined area. Two of the counties, Cass and Shelby, are on the Louisiana border; Cass County also adjoins the southwest corner of Arkansas. The newly infested parish (De Soto) in Louisiana borders on the east Texas line and is two parishes north of the old quarantined area in Louisiana. (R. W. White, October 3).

COTTON LEAFWORM (Alabama argillacea) -- TEXAS - Many cotton fields showed severe ragging in Lubbock area during latter part of September. Some fields still had high percentage of partly grown bolls, damage expected. (W. L. Owens). LOUISIANA - In Red River Valley defoliating large acreages of cotton which have not been recently poisoned. (L. D. Newsom, September 20).

A PLUME MOTH -- ARIZONA - Larvae collected on cotton at Safford, Graham County August 22 by W. Kauffman has been identified by H. W. Capps as Oidaematophorus sp. (near or = griscens Wlsm.) of the family Pterophoridae. Although members of this genus feed on many different plants, it is not recalled that cotton has been previously listed as a host. This is recorded to encourage other entomologists to submit for identification stem borers or other lepidopterous larvae collected on cotton. (R. W. Harned).

SALT-MARSH CATERPILLAR (Estigmene acrea) -- ARIZONA - Infestations in cotton continue to increase in southeast and northwest areas of Salt River Valley. Some movement from cotton to truck crops occurring necessitating erection of barriers. Parasitism is low so far this season. (E. A. Taylor).

